

TECHNIQUE FOR RECOVERING MIRROR CONSISTENCY IN COOPERATIVE VIRTUAL STORAGE

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ABSTRACT OF THE DISCLOSURE

[0043] Disclosed is a method implementable by a computer system for maintaining consistency between mirrors of a mirrored data volume. In one embodiment, the method includes the computer system generating first and second write transactions in response to the generation of transaction to write data to a mirrored data volume. The first and second write transactions comprise first and second tags, respectively. The first and second tags relate the first write transaction to the second write transaction. In one embodiment, the first and second tags are identical. After the first and second write transactions are generated, the computer system transmits the first and second write transactions to first and second storage subsystems, respectively. In one embodiment, the first and second storage subsystems store or are configured to store respective mirrors of the data volume. Additionally, each of the first and second storage subsystems include a tag table that stores tags contained in write transactions generated by the computer system. The tag tables can be used to track write transactions received by the first and second storage subsystems.